

**NAI Icy Worlds Focus Group Workshop**  
September 20 – 21, 2007  
Eagle Room, NASA Ames Research Center

*September 20*

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|-------|---|------------------|
| 9:00  | Welcome   | Pilcher          |
| 9:10  | Workshop goals – Flagship mission studies           | Greeley          |
| 9:20  | Flagship study: Jupiter System Observer             | Senske, Prockter |
| 10:00 | Flagship study: Europa Explorer                     | Pappalardo/Clark |
| 10:40 | Break   |                  |
| 11:00 | Flagship study: Titan                               | Burr             |
| 11:40 | Flagship study: Enceladus                           | Spencer          |
| 12:20 | Lunch   |                  |
| 1:40  | Astrobiology discussion of Flagship mission studies |                  |

*Participant presentations*

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|------|---|
| 2:40 | Bernstein - <i>Near and mid IR spectra of Paks and their cations in H<sub>2</sub>O ice</i>                                  |
| 3:00 | Burrati - <i>Photometry of Enceladus and Europa: clues to surface activity and morphology</i>                               |
| 3:20 | Break   |
| 3:40 | Dalton - <i>Exploration strategies for evaluation of astrobiological potential on Europa</i>                                |
| 4:00 | Doggett - <i>Global geological mapping of Europa</i>  |
| 4:20 | Gudipati - <i>Consequence of electron mobility in icy grains on solar system objects</i>                                    |
| 4:40 | Vance – <i>Improving our understanding of very deep oceans: MgSO<sub>4</sub> chemistry to 700 MPa from -20 to 100 deg C</i> |
| 5:00 | Poster session, pizza, cash bar   |
|      | Eddie - <i>Impact of descent engine impingement upon biosignatures in simulated European ice</i>                            |
|      | Freifeld - <i>Deployment of a deep borehole observatory at High Lake Project Site, Nunavut, Canada</i>                      |
|      | Doggett - <i>Global geological mapping of Europa</i>  |
|      | Kalogerakis - TBD   |
| 6:30 | Adjourn   |

*September 21*

*Participant presentations*

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|-------|--|
| 9:00  | Hand - <i>Galileo magnetometer constraints on the origin of life and habitability in Europa's ocean</i>                                |
| 9:20  | Holland - <i>In situ instrumentation for sampling and analysis on icy worlds</i>   |
| 9:40  | Mastrapa - <i>Optical and physical properties of ices</i>  |
| 10:00 | Monnard - <i>Possible role of ice in the synthesis of polymeric compounds</i>  |
| 10:20 | Break  |
| 10:40 | Mosqueira - <i>Origins of the regular satellites of Jupiter and Saturn</i>   |
| 11:00 | Phillips - <i>Impact gardening on Europa</i>   |
| 11:20 | Rice - <i>Serendipity in action: discovery of teichoic acid as an antifreeze agent and its potential as a bacterial cryoprotectant</i> |
| 11:40 | Shirley - <i>New results from high-resolution near-infrared compositional mapping of Europa's wedges region</i>                        |
| 12:00 | Adjourn  |